

WHAT IS CLAIMED IS:

1. (original) A proportional solenoid valve for a camshaft adjusting device of motor vehicles, the proportional solenoid valve comprising:
 - a valve housing;
 - a piston movably arranged in the valve housing and provided with at least one pressure medium passage;
 - a solenoid part connected to the valve housing and acting on the piston;
 - the valve housing having at least one working connector, a tank connector, and a pressure connector configured to supply a pressure medium into the piston;
 - one or more leakage passages connecting the pressure connector at all times to the at least one working connector.
2. (original) The valve according to claim 1, wherein the one or more leakage passages are provided in the piston.
3. (original) The valve according to claim 1, wherein the one or more leakage passages are provided in the valve housing.
4. (original) The valve according to claim 1, wherein the piston is a hollow piston having a wall and wherein the at least one pressure medium passage is at least one opening penetrating the wall.
5. (currently amended) The A proportional solenoid valve according to claim 4; for a camshaft adjusting device of motor vehicles, the proportional solenoid valve comprising:
 - a valve housing;
 - a piston movably arranged in the valve housing and provided with at least one pressure medium passage;
 - a solenoid part connected to the valve housing and acting on the piston;
 - the valve housing having at least one working connector, a tank connector, and a pressure connector configured to supply a pressure medium into the piston;
 - one or more leakage passages connecting the pressure connector at all times to the at least one working connector;
 - wherein the piston is a hollow piston having a wall and wherein the at least one

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pressure medium passage is at least one opening penetrating the wall:

wherein several of the openings penetrating the wall are provided and wherein a first and a second one of the working connectors are provided, wherein the first and second working connectors each have at least one of the openings penetrating the wall correlated therewith.

6. (original) The valve according to claim 5, wherein the first and second working connectors each have at least one of the leakage passages connecting the first and second working connectors to the pressure connector at all times, respectively.

7. (original) The valve according to claim 6, wherein the at least one leakage passage of the first working connector and the at least one leakage passage of the second working connector have identical flow cross-sections.

8. (original) The valve according to claim 6, wherein the at least one leakage passage of the first working connector and the at least one leakage passage of the second working connector have different flow cross-sections.

9. (original) The valve according to claim 1, wherein the at least one leakage passage is a nozzle.

10. (original) The valve according to claim 1, wherein the one or more leakage passages are openings penetrating a wall of the piston.

11. (original) The valve according to claim 1, wherein the one or more leakage passages are comprised of openings provided in the valve housing.

12. (currently amended) The A proportional solenoid valve according to claim 11, for a camshaft adjusting device of motor vehicles, the proportional solenoid valve comprising:

a valve housing;

a piston movably arranged in the valve housing and provided with at least one pressure medium passage;

a solenoid part connected to the valve housing and acting on the piston;

the valve housing having at least one working connector, a tank connector, and a pressure connector configured to supply a pressure medium into the piston;

one or more leakage passages connecting the pressure connector at all times to the

at least one working connector;

wherein the one or more leakage passages are comprised of openings provided in the valve housing;

wherein the valve housing has a land between the at least one working connector and the pressure connector and wherein the one or more leakage passages are bores in the land.

13. (original) The valve according to claim 1, wherein the one or more leakage passages are an orifice.

14. (original) The valve according to claim 1, wherein the piston has several of the leakage passages distributed circumferentially about the piston.

15. (original) The valve according to claim 1, wherein the one or more leakage passages are positioned adjacent to the at least one pressure medium passage.

16. (original) The valve according to claim 1, wherein the piston has a closed bottom and wherein the solenoid part has a plunger, wherein the closed bottom of the piston rests against the plunger.

17. (new) A proportional solenoid valve for a camshaft adjusting device of motor vehicles, the proportional solenoid valve comprising:

a valve housing;

a piston movably arranged in the valve housing and provided with at least one pressure medium passage;

a solenoid part connected to the valve housing and acting on the piston;

the valve housing having two working connectors, a tank connector, and a pressure connector configured to supply a pressure medium into the piston;

one or more leakage passages connecting the pressure connector at all times to the two working connectors.

18. (new) A camshaft adjusting device for motor vehicles, comprising:

an adjuster having an adjusting element;

a proportional solenoid valve acting on the adjusting element for adjusting the adjusting element;

the proportional solenoid valve comprising a valve housing provided with at least

one working connector, a tank connector, and a pressure connector;
the proportional solenoid valve comprising a piston movably arranged in the valve housing;

the pressure connector adapted to supply a pressure medium into the piston;

the piston having at least one passage for the pressure medium;

one or more leakage passages connecting the pressure connector at all times to the at least one working connector for hydraulically clamping the adjusting element.

19. (new) A camshaft adjusting device for motor vehicles, comprising:
an adjuster having an adjusting element;

a proportional solenoid valve acting on the adjusting element for adjusting the adjusting element;

the proportional solenoid valve comprising a valve housing provided with two working connectors, a tank connector, and a pressure connector;

the proportional solenoid valve comprising a piston movably arranged in the valve housing;

the pressure connector adapted to supply a pressure medium into the piston;

the piston having at least one passage for the pressure medium;

one or more leakage passages connecting the pressure connector at all times to the two working connectors for hydraulically clamping the adjusting element.